

FIG 1A. MRP3s1 Expression in normal tissues

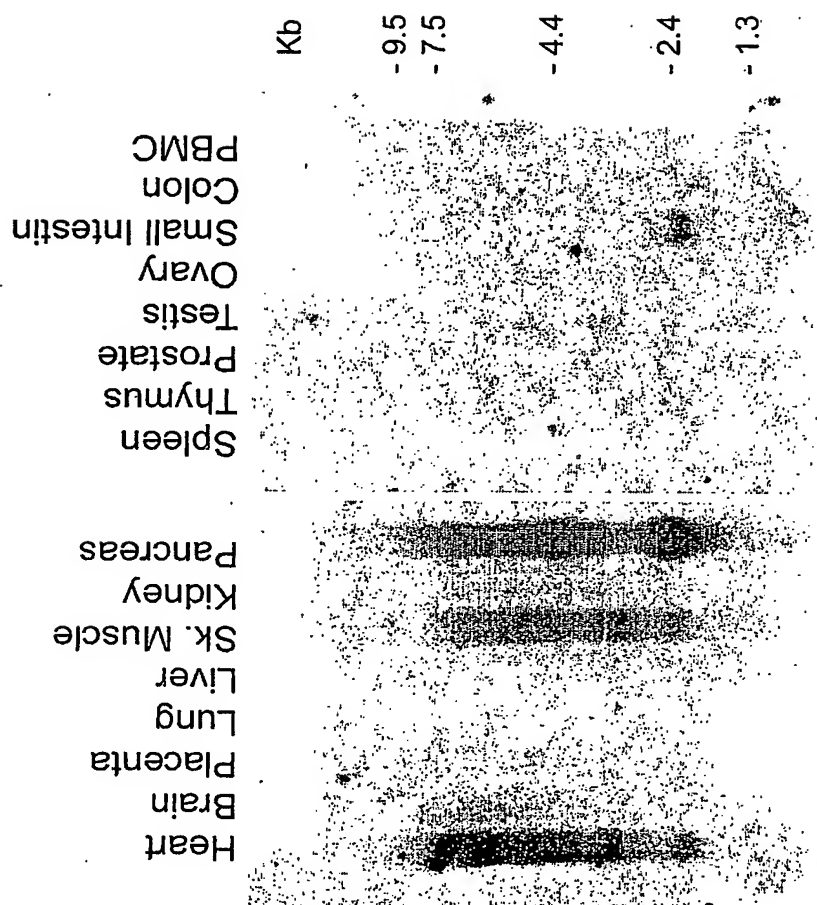


FIG 1B. MRP3s1 Expression in cancer cell lines

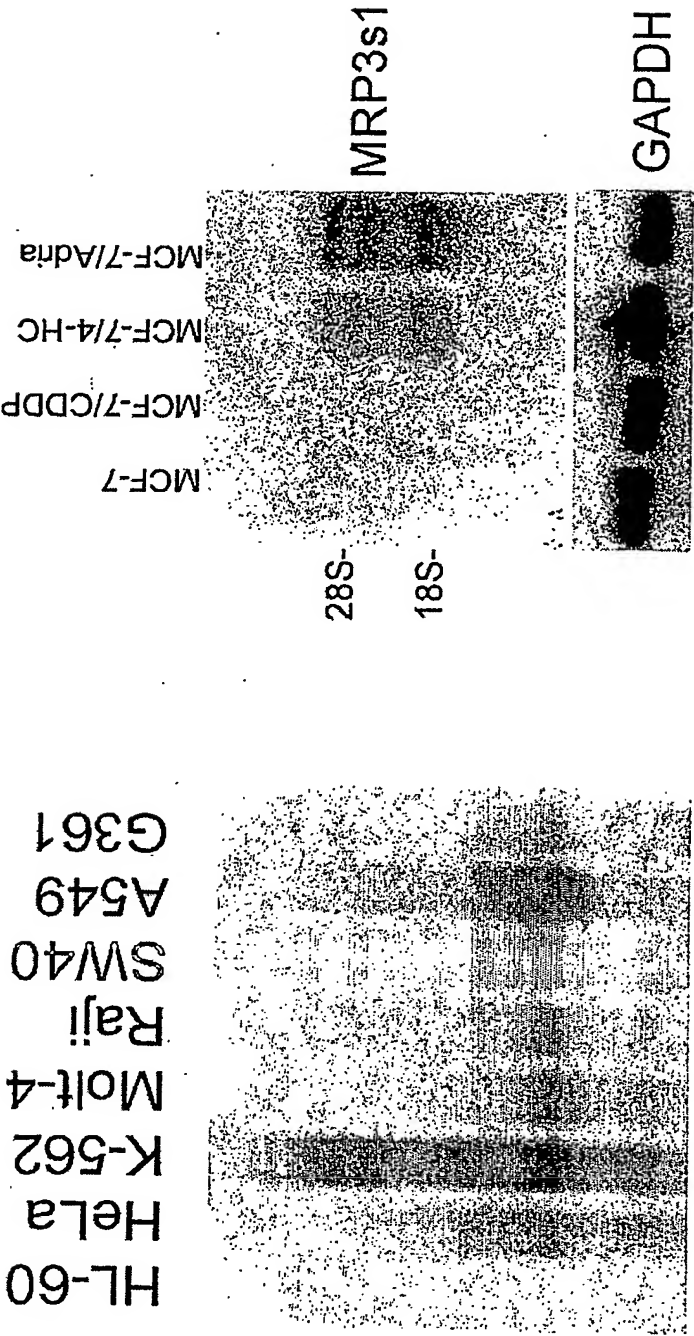


FIG. 2. Detection of MRP3s1 in HT-29 cells by different mAbs

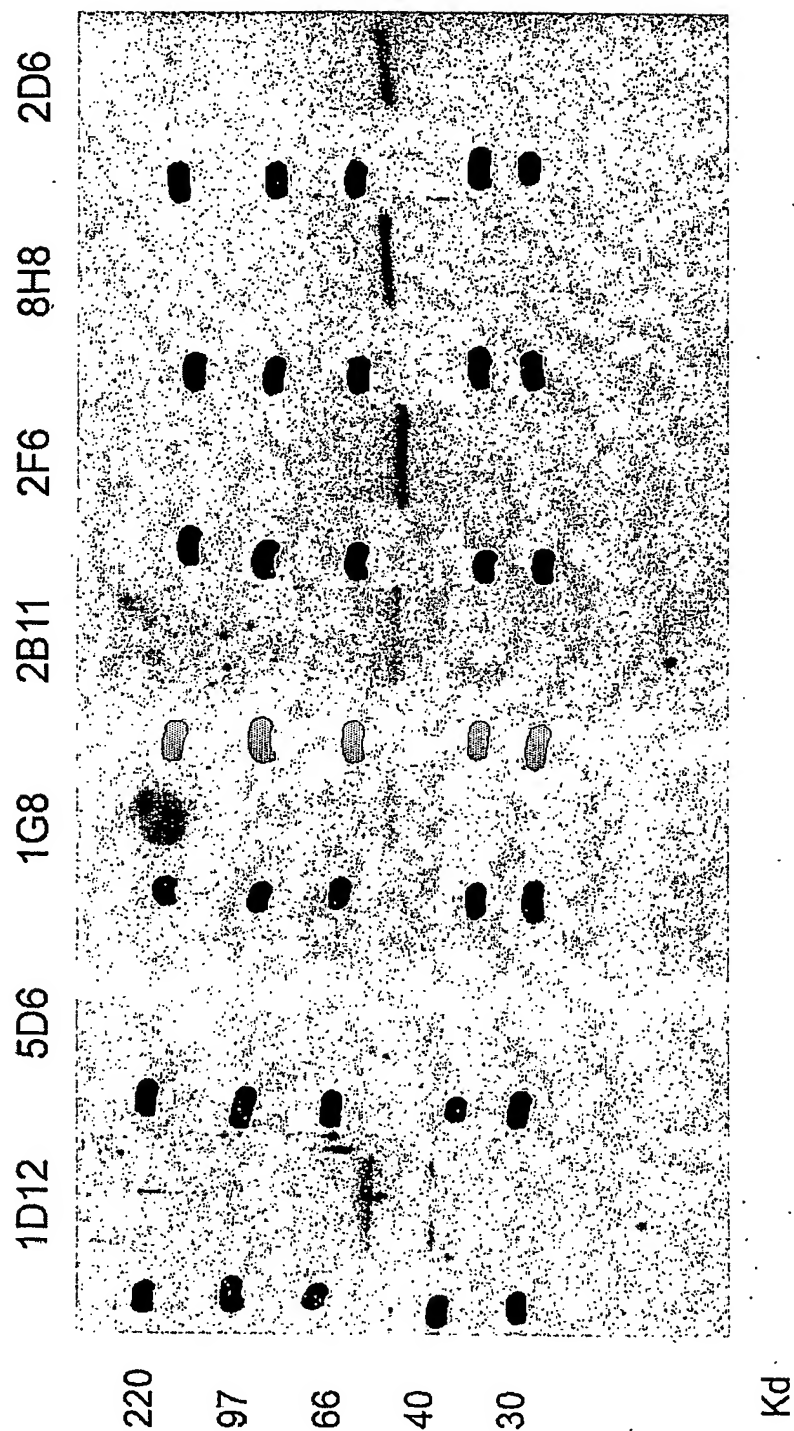
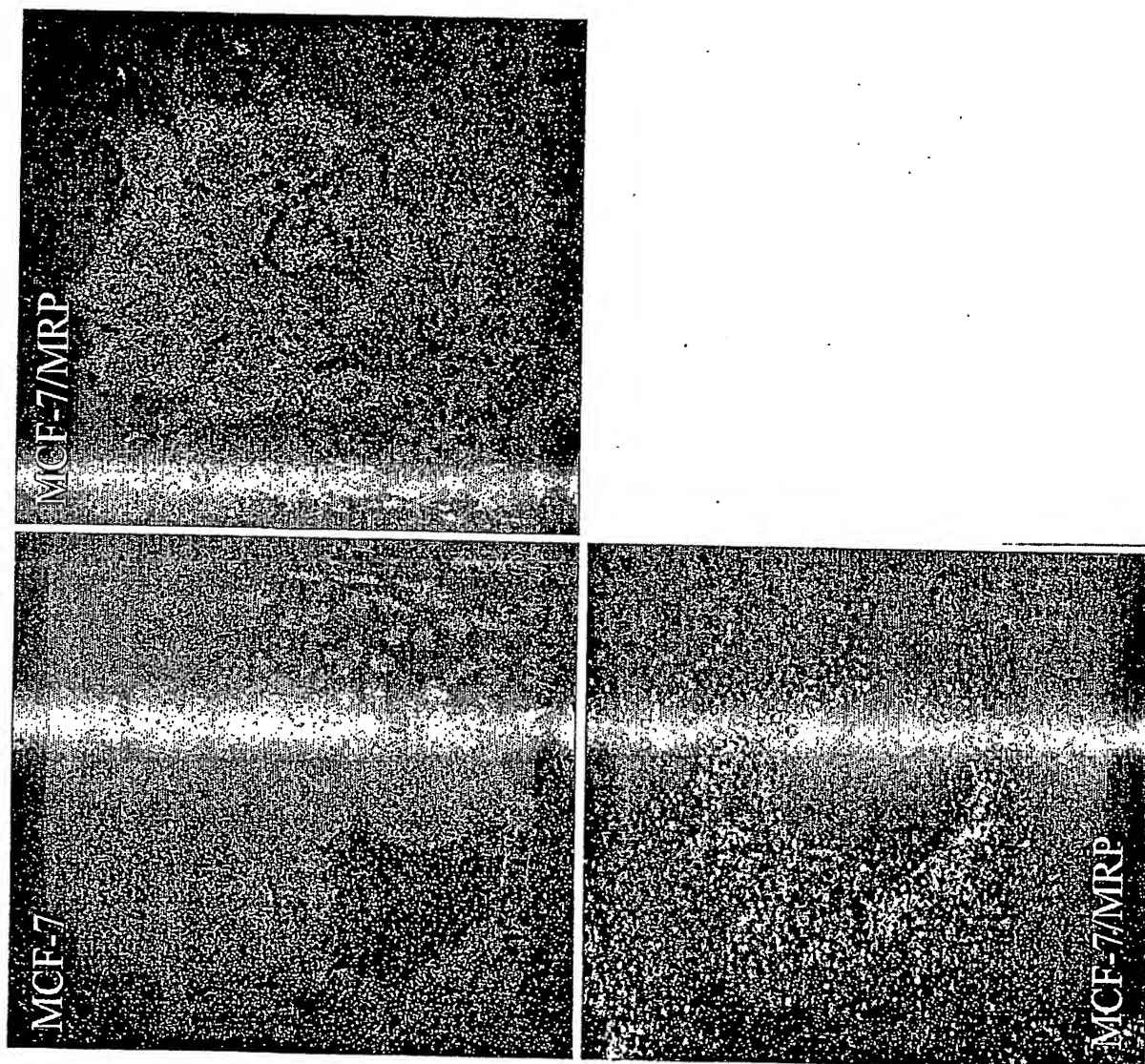


FIG. 3A. Overexpression of MRP3s1 in MCF-7 cells



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FIG. 3B. Effect of MRP3s1 overexpression on drug sensitivity

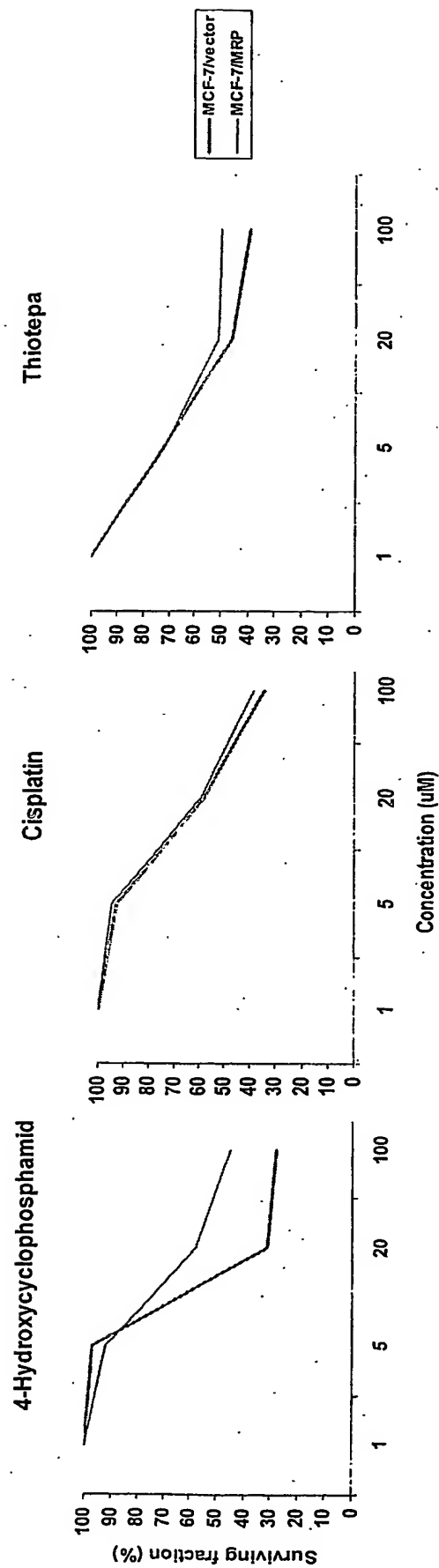


FIG. 4. Sequences for MRP3s1 nucleic acid, polypeptide and promoters.**1. MRP3s1 nucleotide sequence (SEQ ID NO: 1)**

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1  gttttcttgc tttggggtgt tgtaaaaatg atcttggagc ttagccccaaggacaaaca
61 gaatttctct tgtctctggg caagttgtag gctcatgtga caggtcagga cagtgtaggg
121 ctggcatacc gctcgtcac gttcacatgc ttgcagagaa cgtacacaga cgaggtgact
181 gaagcctggg ctgcagggtca ggcagggtcat cctgatgcca gcttgactg tcaaagagtc
241 acctaactgc aaacggaatt tttgtaaagc agatcacatt gttataacct caggtggctc
301 aaaccttgaa cgcgttggca aacaaaaaac aatccagaaa ggtcaatttt cacaaaggctc
361 agtgtgcaca tgaatctact tgtaaaaatg tacattttga ttcagtagac ctaggatggg
421 gctcaggact ctgcactttg atcaagactc cttggtacgc aaagtgtggc ccatgggcca
481 gttgcatcac catcctctgg gagcttggtta gaaatgaaga atctcaggtt ccaagtccca
541 cctcagacta cagaatccgg cgttgcatth taacaagatt ctctgggaag tcttatacat
601 attaaagttg gagaaacaga aaccaaggcg agtggtcct tgggttaagtc tgcactgtca
661 ctgcccagg gagtcattcg ggattacagc cccagctggc atgcctgtgg gcttgatcca
721 ggcccacctg ggtcatccat gggctaggat cccatggatg ggcacatgat ccaggagtct
781 gaactcctcc caaagccatt acggtgggga ggggagatcg ccatacgtat aaccagtcct
841 ctttggc cag gtgacatttg ctctgaactg gatgatacga atgatgtcag atttggaatc
901 taacatcgtg gctgtggaga ggggtcaagga gtactccaag acagagacag aggcgcctg
961 ggtggtggaa ggcagccgcc ctcccgaagg ttggcccca cgtggggagg tggagtccg
1021 gaattattct gtgcgtacac ggccgggct agacctggtg ctgagagacc tgagtctgca
1081 tgtgcacggg ggcgagaagg tggggtatcg gggccgact ggggctggca agtcttccat
1141 gaccctttgc ctgttccgca tccctggagg ggcgaagggt gaaatccgca ttgatggcct
1201 caatgtggca gacatcggcc tccatgacct gcgctctcag ctgaccatca tcccgcagga
1261 ccccatcctg ttctcgggga ccctgcgcac gaacctggac cccttcggca gctactcaga
1321 ggaggacatt tgggtgggctt tggagctgtc ccacctgcac acgtttgtga gctcccagcc
1381 ggcaggcctg gacttccagt gctcagaggg cggggagaaat ctacagctgg gccagaggca
1441 gctcgtgtgc ctggcccag ccctgctccg caagagccgc atcctggttt tagacgaggc
1501 cacagctgcc atcgacctgg agactgacaa cctcatccag gctaccatcc gcaccagtt
1561 tgatacctgc actgtcctga ccacgcaca ccggttaac actatcatgg actacaccag
1621 ggtcctggtc ctggacaaag gagtagtagc tgaatttgat tctccagcca acctcattgc
1681 agctagaggc atcttctacg ggtggccag agatgctgga cttgcctaaa atatattcct
1741 gagatttcc cctggccttt cctggttttc atcaggaagg aaatgacacc aaatatgtcc
1801 gcagaatgga cttgatagca aacactgggg gcaccttaag attttgacc tgtaaaagtgc
1861 cttacagggt aactgtgctg aatgctttag atgaggaaat gatccccaag tggatgaatga
1921 cagcctaag gtcacagcta gtttgagcca gttagactag tccccggtct cccgattccc
1981 aactgagtgt tatttgcaca ctgcactgtt ttcaaataac gattttatga aatgacctct
2041 gtccctccctc tgatttttca tattttctaa agtttcgttt ctgtttttta ataaaaagct
2101 ttttccctcct ggaacagaag acagctgctg ggtcaggcca cccctaggaa ctcagtcctg
2161 tactctgggg tgctgcctga atccattaaa aatgggagta ctgatgaaat aaaactacat
2221 ggtcaacaaa aaaaaaaaaa aa

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2. MRP3s1 polypeptide (SEQ ID NO: 2):

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MIRMMSDLESNIVAVERVKEYSKTETETAPWVVEGSRPPEGWPPRGEVEFRNYSVRYPGLDLVLRDLSLH
VHGGEKVGIVGRTGAGKSSMTLCLFRILEAAKGEIRIDGLNVADIGLHDLRSQLTIIIPQDPILFSGTLRM
NLDPFSGSYSEEDIWWALELSHLHTFVSSQPAGLDFQCSEGGENLSVGQRQLVCLARALLRKSRIILVLEA
TAAIDLETNDLIQATIRITQFDTCTVLTIHRLNTIMDYTRVLVLDKGVVAEFDSPANLIAARGIFYGMAR
DAGLA

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3. MRP3s1 minimal promoter (SEQ ID NO: 3)

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gaattctg ttgaataatc tctgtcctca aacccacat ctctctcctg ctcagccgtc
gaccttgctt gacacctcac agttcaactg gagagacccc catcagcagg agattgtgct
gcaggctgag caggtctttg tggctggaga aacaaaatgt tttaaaagcc cagaagaggg
actgggtgca gtggctcaca cctaatacca gcactttggg aggcggaggt gggcggatca
cctgaggcca ggagctccag aacagcctgg ccaacatggt gaaaccctat ctctacttaa
atacaaaaat tagccagccg tgggtggcgg catctgtaat cccagctact caggaggctg
aggcaggaga atagcttgaa cctgggaggg agagggtgca gtgagccaag atcacgccac
tgactccag cctgggtgac agagcgagac tccatctcaa gagagaaaaa aaaaaagtcc
agaggagttt tcttgctttg ggggtgttga gaaatgatct tggagcttag ccccaaagga
caagga

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4. MRP3s1 promoter (SEQ ID NO: 4)

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1 atgaagggcc tggacccag ggcagggcc cactgggac agaaaccaca cagggtgttc
61 aggcattctc cgagtgtccc tccctgtcga gtatgggcac cagccacagg gtctgttctc
121 aaggactgtg agaaaaaaaa aaaaagaaaa aaatcattga gttgacaagt ttataaccac
181 acaccatggc tggatgttcc tactttcctt cccaagaag cccatgttct cacattcaga
241 aagaattctg ttgaataatc tctgtcctca aacccacat ctctctcctg ctcagccgtc
301 gaccttgctt gacacctcac agttcaactg gagagacccc catcagcagg agattgtgct
361 gcaggctgag caggtctttg tggctggaga aacaaaatgt tttaaaagcc cagaagaggg
421 actgggtgca gtggctcaca cctaatacca gcactttggg aggcggaggt gggcggatca
481 cctgaggcca ggagctccag aacagcctgg ccaacatggt gaaaccctat ctctacttaa
541 atacaaaaat tagccagccg tgggtggcgg catctgtaat cccagctact caggaggctg
601 aggcaggaga atagcttgaa cctgggaggg agagggtgca gtgagccaag atcacgccac
661 tgactccag cctgggtgac agagcgagac tccatctcaa gagagaaaaa aaaaaagtcc
721 agaggagttt tcttgctttg ggggtgttga gaaatgatct tggagcttag ccccaaagga
781 caagga

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5. MRP3s1 promoter 276 bp region (SEQ ID NO: 5):

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T T T T T T T T T T T C T C T C T T G A G A T G G A G T C T C G
C T C T G T C A C C C A G G C T G G A G T G C A G T G G C G T G
A T C T T G G C T C A C T G C A A C C T C T G C C T C C C A G G
T T C A A G C T A T T C T C C T G C C T C A G C C T C C T G A G
T A G C T G G G A T T A C A G A T G C C C G C C A C C A C G G C
T G G C T A A T T T T T G T A T T T A A G T A G A G A T A G G G
T T T C A C C A T G T T G G C C A G G C T G T T C T G G A G C T
C C T G G C C T C A G G T G A T C C G C C C A C C T C C G C C T
C C C A A A G

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Fig 4 Continued